

Title (en)

QUICK REGISTRATION OF COORDINATE SYSTEMS FOR ROBOTIC SURGERY

Title (de)

SCHNELLE REGISTRIERUNG VON KOORDINATENSYSTEMEN FÜR ROBOTERCHIRURGIE

Title (fr)

ENREGISTREMENT RAPIDE DE SYSTÈMES DE COORDONNÉES POUR CHIRURGIE ROBOTIQUE

Publication

**EP 3662857 B1 20240306 (EN)**

Application

**EP 19213798 A 20191205**

Priority

US 201816211594 A 20181206

Abstract (en)

[origin: EP3662857A1] A method for controlling a robot, which moves an ensemble that includes an arm and a tool, includes receiving from the robot, at one or more times, an arm-tracking signal, which indicates an arm-pose of the arm relative to a robot coordinate system (RCS) of the robot, deriving, from the arm-tracking signal, respective RCS-poses of at least one portion of the ensemble, relative to the RCS, at the times, receiving, from a tracking system, a sensor-tracking signal, which indicates a sensor-pose of at least one sensor, which belongs to the tracking system and is coupled to the ensemble, relative to a tracking-system coordinate system (TCS) of the tracking system, deriving, from the sensor-tracking signal, respective TCS-poses of the portion of the ensemble, relative to the TCS, at the times, registering the RCS to the TCS based on the RCS-poses and the TCS-poses, and, based on the registering, controlling the robot.

IPC 8 full level

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CPC (source: CN EP IL US)

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Cited by

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DOCDB simple family (publication)

**EP 3662857 A1 20200610**; **EP 3662857 B1 20240306**; CN 111281543 A 20200616; CN 111281543 B 20240730; IL 270512 A 20200630; IL 270512 B1 20230501; IL 270512 B2 20230901; JP 2020089731 A 20200611; JP 7430523 B2 20240213; US 11123142 B2 20210921; US 2020179064 A1 20200611

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